



BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : Improvements to Roads and Drains at
Vidyasagara Govt School Back Side
Roads in Ward No 06 Thanisandra

PRE MEASUREMENTS

Job Code : 006-20-000015

**BRUHATH BANGALORE MAHANAGARAPALIKE
YELAHANKA ZONE**

Pre Measurements

Name of work: Improvements to Roads and Drains at Vidyasagara Govt School Back Side Roads in Ward No 06 Thanisandra

Work Order No: BBMP/EE/BTP/WO/143/2020-21 dt: 26.11.2020

JOB NUMBER: 006-21-000015

Estimate Cost: 100.00 lakhs.

Name of Contractor : Sri. Muniraju B.M

Sl No	Description of work	Unit	Mesurement				Qty
			No.	L	B	D	
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= $57+2.0 \times 1.28 \times 5 = 69.80$						
	For Drain.						
a	school back side main road W 1517	cum	1	29.20	1.25	1.15	41.98
			1	26.90	1.25	1.15	38.67
			1	26.50	1.25	1.15	38.09
			1	25.40	1.25	1.15	36.51
			1	10.80	1.25	1.15	15.53
b	Vidyasagar school Back side cross road-1 W1058		1	30.00	1.20	1.15	41.40
			1	30.00	1.20	1.15	41.40
			1	30.00	1.20	1.15	41.40
			1	3.20	1.20	1.15	4.42
c	cross road -2 W1052		1	30.00	1.20	1.15	41.40
			1	30.00	1.20	1.15	41.40
			1	23.25	1.20	1.15	32.09
d	cross road -3 W1046		1	30.00	1.20	1.15	41.40
			1	30.00	1.20	1.15	41.40
			1	26.00	1.20	1.15	35.88
e	Cross road -6 W1821 (temple road)						
	L/s Drain		1	30.00	1.15	1.10	37.95
			1	30.00	1.15	1.10	37.95
			1	10.90	1.15	1.10	13.79
	R/s Drain		1	30.00	1.15	1.10	37.95
			1	30.00	1.15	1.10	37.95
			1	14.50	1.15	1.10	18.34
	end Drain		1	3.00	1.15	1.10	3.80
			1	20.00	1.15	1.10	25.30
			1	10.00	1.15	1.10	12.65
b	For Culverts						
	Cd1		1	5.60	1.80	1.00	10.08
	Cd2		1	3.70	1.80	1.00	6.66
	Cd3		1	4.40	1.80	1.00	7.92
	Cd4		1	5.20	1.80	1.00	9.36
					Total Qty		792.65
					Limited to		784.24

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Ward No. 06

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Assistant Executive Engineer

Byatarayanapura, Sub Division

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Sl No	Description of work	Mesurement					Qty
		Unit	No.	L	B	D	
	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18						
a	school back side main road W 1517	cum	1	29.20	1.20	0.15	5.26
			1	26.90	1.20	0.15	4.84
			1	26.50	1.20	0.15	4.77
			1	25.40	1.20	0.15	4.57
			1	10.80	1.20	0.16	2.07
b	Vidyasagar school Back side cross road-1 W1058		1	30.00	1.20	0.15	5.40
			1	30.00	1.20	0.15	5.40
			1	30.00	1.20	0.15	5.40
			1	3.20	1.20	0.15	0.58
c	cross road -2 W1052		1	30.00	1.20	0.15	5.40
			1	30.00	1.20	0.15	5.40
			1	23.25	1.20	0.15	4.19
d	cross road -3 W1046		1	30.00	1.20	0.15	5.40
			1	30.00	1.20	0.15	5.40
			1	26.00	1.20	0.16	4.99
e	Cross road -6 W1821 (temple road)						
	L/s Drain		1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
			1	10.90	1.15	0.15	1.73
	R/s Drain		1	30.00	1.15	0.15	5.18
			1	30.00	1.15	0.15	5.18
			1	14.50	1.15	0.15	2.50
	end Drain		1	3.00	1.15	0.15	0.52
			1	20.00	1.15	0.15	3.45
			1	10.00	1.15	0.15	1.73
B	For Culverts						
	Cd1		1	5.60	1.80	0.20	2.02
	Cd2		1	3.70	1.80	0.20	1.33
	Cd3		1	4.40	1.80	0.20	1.58
	Cd4		1	5.20	1.80	0.20	1.87
	Ramp		1	5.60	0.35	0.15	0.29
			1	3.70	0.35	0.15	0.19
				4.40	0.35	0.15	0.23
C	For concrete road						
a	Vidyasagar Govt. School Back side cross road W1058			5.60+5.00		0.15	11.93
				2			
			1	5.10	5.00+5.00	0.15	3.83
				2			
			1	6.50	4.05+3.55	0.15	3.71
				2			
			1	6.50	5.50+5.20	0.15	5.22
				2			

Sl No	Description of work	Unit	Measurement				Qty
			No.	L	B	D	
			1	4.90	3.70+3.60	0.15	2.68
					2		
			1	15.00	5.05+5.00	0.15	11.31
					2		
			1	15.00	5.00+4.45	0.15	10.63
					2		
			1	14.40	4.45+4.10	0.15	9.23
					2		
b	cross road -2 W1052		1	15.00	4.60+4.50	0.15	10.24
					2		
			1	15.00	4.50+4.70	0.15	10.35
					2		
			1	15.00	4.70+4.70	0.15	10.58
					2		
			1	15.00	4.70+4.75	0.15	10.63
					2		
			1	15.00	4.75+4.90	0.15	10.86
					2		
			1	8.40	4.90+5.10	0.15	6.30
					2		
c	cross road -3 W1046		1	15.00	4.90+4.30	0.15	10.35
					2		
			1	15.00	4.30+4.20	0.15	10.56
					2		
			1	15.00	4.20+4.40	0.15	9.68
					2		
			1	15.00	4.40+4.35	0.15	9.84
					2		
			1	15.00	4.35+4.55	0.15	10.01
					2		
			1	10.60	4.55+4.45	0.15	7.16
					2		
d	HP school cross road -4 W1799		1	15.00	5.20+5.00	0.15	11.48
					2		
			1	15.00	5.00+4.70	0.15	10.91
					2		
			1	15.00	4.70+4.70	0.15	10.58
					2		
			1	15.00	4.70+4.20	0.15	10.01
					2		
			1	7.80	4.70+4.00	0.15	5.09
					2		
			1	6.65	3.60+5.90	0.15	4.74
					2		
			1	8.80	5.20+5.20	0.15	6.86
					2		
			1	5.00	3.10+3.10	0.16	2.48
					2		
e	cross road -5		1	15.00	3.80+3.80	0.16	9.12
					2		
			1	15.00	4.30+4.35	0.16	10.38

Sl No	Description of work	Unit	Measurement			Qty
			No.	L	B	
					2	
			1	7.00	4.35+4.30	0.15
					2	
f	Cross road -6 W1821 Temple road		1	5.00	8.70+8.80	0.15
	Ch 0.00 to 61.00 mtr				2	
			1	15.00	7.00+6.15	0.16
					2	
			1	15.00	6.15+5.20	0.15
					2	
			1	15.00	5.20+4.20	0.15
					2	
			1	10.50	4.20+3.50	0.15
					2	
Total Qty						419.38
Qty Limited to =						419.29

Assistant Engineer
Byatarayanapura Sub Division

Assistant Executive Engineer
Byatarayanapura Sub Division

4	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and 7 or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200 Specification No. Pg No.229 Item No.28.8.2					
	for RCC drain	Tonne				
	10 mm dia main bars					
a	school back side main road W 1517		209	2	2.35	980.29
			192	2	2.35	903.07
			189	2	2.35	889.64
			181	2	2.35	852.71
			77	2	2.35	362.57
b	Vidyasagar school Back side cross road-1 W1058		214	2	2.35	1007.14
			214	2	2.35	1007.14
			214	2	2.35	1007.14
			23	2	2.35	107.43
c	cross road -2 W1052		214	2	2.35	1007.14
			214	2	2.35	1007.14
			166	2	2.35	780.54
d	cross road -3 W1046		214	2	2.35	1007.14
			214	2	2.35	1007.14
			186	2	2.35	872.86
e	Cross road -6 W1821 (temple road)		0			
	L/s Drain		214	2	2.35	1007.14
			214	2	2.35	1007.14
			78	2	2.35	365.93
	R/s Drain		214	2	2.35	1007.14
			214	2	2.35	1007.14

Sl No	Description of work	Unit	Measurement				Qty
			No.	L	B	D	
	end Drain		104	2	2.35		486.79
			21	2	2.35		100.71
			143	2	2.35		671.93
			71	2	2.35		335.71
			Total Length in Mtr				1878.25
			wt @ 0.62kg/mtr				1164.72
b	8 mm dia distribution bars						
	school back side main road W 1517		14	29.20			408.80
			14	26.90			376.60
			14	26.50			371.00
			14	25.40			355.60
			14	10.80			151.20
	Vidyasagar school Back side cross road-1 W1058		14	30.00			420.00
			14	30.00			420.00
			14	30.00			420.00
			14	3.20			44.80
	cross road -2 W1052		14	30.00			420.00
			14	30.00			420.00
			14	23.50			329.50
	cross road -3 W1046		14	30.00			420.00
			14	30.00			420.00
			14	26.00			364.00
	Cross road -6 W1821 (temple road)						
	L/s Drain		14	30.00			420.00
			14	30.00			420.00
			14	10.90			152.60
	R/s Drain		14	30.00			420.00
			14	30.00			420.00
			14	14.50			203.00
	end Drain		14	3.00			42.00
			14	20.00			280.00
			14	10.00			140.00
			Total Length in Mtr				7835.10
			wt @ 0.39kg/mtr				3055.69
	for culverts 12 mm dia bars						
	Cd1		37	2.45	2		181.30
	Cd2		31	2.45	2		159.90
	Cd3		32	2.45	2		156.80
	Cd4		35	2.45	2		171.50
			Total Length in Mtr				661.50
			wt @ 0.89kg/mtr				588.735
	10 mm dia bars						
	Cd1		15	5.60			84.00
	Cd2		15	4.60			69.00
	Cd3		15	4.80			72.00
	Cd4		15	5.20			78.00
			Total Length in Mtr				303.00
			wt @ 0.62kg/mtr				187.86
			Total Wt in kgs				15481.00
			Total Wt in Tonne				15.48

Sl No	Description of work	Measurement					Qty
		Unit	No.	L	B	D	

Assistant Engineer

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Assistant Executive Engineer

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7	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)						
a	Vidyasagar Govt. School Back side cross road-1 W1058	cum	1	15.00	5.60+5.00	0.45	35.78
					2		
			1	5.10	5.00+5.00	0.45	11.48
					2		
			1	6.50	4.05+3.55	0.45	11.12
					2		
			1	6.50	5.50+5.20	0.45	15.65
					2		
			1	4.90	3.70+3.60	0.45	8.05
					2		
			1	15.00	5.05+5.00	0.45	33.92
					2		
			1	15.00	5.00+4.45	0.45	31.89
					2		
			1	14.40	4.45+4.10	0.45	27.70
					2		
b	cross road -2 W1052		1	15.00	4.60.4.50	0.45	30.71
					2		
			1	15.00	4.50+4.70	0.45	31.05
					2		
			1	15.00	4.70+4.70	0.45	31.73
					2		
			1	15.00	4.70+4.75	0.45	31.89
					2		
			1	15.00	4.75+4.90	0.45	32.57
					2		
			1	8.40	4.90+5.10	0.45	18.90
					2		
c	cross road -3 W1046		1	15.00	4.90+4.30	0.45	31.05
					2		
			1	15.00	4.30+4.20	0.45	28.69
					2		
			1	15.00	4.20+4.40	0.45	29.03
					2		
			1	15.00	4.40+4.35	0.45	29.53
					2		
			1	15.00	4.35+4.55	0.45	30.04
					2		
			1	10.60	4.55+4.45	0.45	21.47
					2		
d	HP school cross road -4 W1799		1	15.00	5.20+5.00	0.45	34.43
					2		

Sl No	Description of work	Unit	Measurement				Qty
			No.	L	B	D	
			1	15.00	5.00+4.70	0.45	32.74
					2		
			1	15.00	4.70+4.70	0.45	31.73
					2		
			1	15.00	4.70+4.20	0.50	33.38
					2		
			1	7.80	4.70+4.00	0.50	16.97
					2		
			1	6.65	3.60+5.90	0.45	14.21
					2		
			1	8.80	5.20+5.20	0.45	20.59
					2		
			1	5.00	3.10+3.10	0.50	7.75
					2		
e	cross road -5		1	15.00	3.80+3.80	0.45	125.65
					2		
			1	15.00	4.30+4.35	0.45	29.19
					2		
			1	7.00	4.35+4.30	0.45	13.62
					2		
f	Cross road -6 W1821 Temple road		1	5.00	8.70+8.80	0.45	19.69
					2		
	Ch 0.00 to 61.00 mtr		1	15.00	7.00+6.15	0.45	44.38
					2		
			1	15.00	6.15+5.20	0.45	38.31
					2		
			1	15.00	5.20+4.20	0.45	31.73
					2		
			1	10.50	4.20+3.50	0.45	18.19
					2		
					Actual Qty		934.77
					Limited to		933.39

Assistant Engineer

Ward No. 06

KSRRB 300-58. Compaction of original ground by mechanical means including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)

occurring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)

147)

a

Vidyasagar Govt. School Back side cross road-1

W1058

sqm

1

15.00

5.60+5.00

2

1

5.10

5.00+5.00

2

1

6.50

4.05+3.55

2

1

6.50

5.50+5.20

2

1

4.90

3.70+3.60

2

1

15.00

5.05+5.00

75.38

Sl No	Description of work	Unit	Measurement				Qty
			No.	L	B	D	
			1	15.00	5.00+4.45		70.88
					2		
			1	14.40	4.45+4.10		61.56
					2		
b	cross road -2 W1052		1	15.00	4.60+4.50		68.25
					2		
			1	15.00	4.50+4.70		69.00
					2		
			1	15.00	4.70+4.70		70.50
					2		
			1	15.00	4.70+4.75		70.88
					2		
			1	15.00	4.75+4.90		72.38
					2		
			1	8.40	4.90+5.10		42.00
					2		
c	cross road -3 W1046		1	15.00	4.90+4.30		69.00
					2		
			1	15.00	4.30+4.20		63.75
					2		
			1	15.00	4.20+4.40		64.50
					2		
			1	15.00	4.40+4.35		65.63
					2		
			1	15.00	4.35+4.55		66.75
					2		
			1	13.60	4.55+4.45		61.20
					2		
d	HP school cross road -4 W1799		1	15.00	5.20+5.00		76.50
					2		
			1	15.00	5.00+4.70		72.75
					2		
			1	15.00	4.70+4.70		70.50
					2		
			1	15.00	4.70+4.20		66.75
					2		
			1	7.80	4.70+4.00		33.93
					2		
			1	6.65	3.60+5.90		31.59
					2		
			1	8.80	5.20+5.20		45.76
					2		
			1	5.00	3.10+3.10		15.50
					2		
e	cross road -5		1	15.00	3.80+3.80		57.00
					2		
			1	15.00	4.30+4.35		64.88
					2		
			1	7.00	4.35+4.30		30.28
					2		
f	Cross road -6 W1821 Temple road		1	5.00	8.70+8.80		43.75

Sl No	Description of work	Mesurement					Qty
		Unit	No.	L	B	D	
	Cross road -6 W1821 Temple road		1	5.00	8.70+8.80	1	43.75
	Ch 0.00 to 61.00 mtr				2		
			1	15.00	7.00+6.15		98.63
					2		
			1	15.00	6.15+5.20		85.13
					2		
			1	15.00	5.20+4.20		70.50
					2		
			1	10.50	4.20+3.50		40.43
					2		
			Actual Qty				2077.85
			Limited to				2074.20

Assistant Engineer

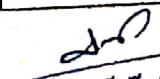
Assistant Executive Engineer

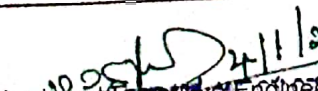
Assistant Engineer
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Assistant Executive Engineer
Byatarayanapura Sub-Division

9		Construction of granular sub-base Grading-V as Sub-base and drainage layer using coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)					
a	Vidyasagar Govt. School Back side cross road-1 W1058	cum	1	15.00	5.60+5.00	0.15	11.93
					2		
			1	5.10	5.00+5.00	0.15	3.83
					2		
			1	6.50	4.05+3.55	0.15	3.71
					2		
			1	6.50	5.50+5.20	0.15	5.22
					2		
			1	4.90	3.70+3.60	0.15	2.68
					2		
			1	15.00	5.05+5.00	0.15	11.31
					2		
			1	15.00	5.00+4.45	0.15	10.63
					2		
			1	14.40	4.45+4.10	0.15	9.23
					2		
b	cross road -2 W1052		1	15.00	4.60+4.50	0.15	10.24
					2		
			1	15.00	4.50+4.70	0.15	10.35
					2		
			1	15.00	4.70+4.70	0.18	12.69
					2		
			1	15.00	4.70+4.75	0.15	10.63
					2		
			1	15.00	4.75+4.90	0.15	10.86
					2		
			1	8.40	4.90+5.10	0.15	6.30
					2		
c	cross road -3 W1046		1	15.00	4.90+4.30	0.15	10.35

Sl No	Description of work	Unit	Measurement			Qty
			No.	L	B	
					2	
			1	15.00	4.30+4.20	0.15
					2	
			1	15.00	4.20+4.40	0.15
					2	
			1	15.00	4.40+4.35	0.15
					2	
			1	15.00	4.35+4.55	0.15
					2	
			1	10.60	4.55+4.45	0.15
					2	
d	HP school cross road -4 W1799		1	15.00	5.20+5.00	0.15
					2	
			1	15.00	5.00+4.70	0.15
					2	
			1	15.00	4.70+4.70	0.15
					2	
			1	15.00	4.70+4.20	0.15
					2	
			1	7.80	4.70+4.00	0.15
					2	
			1	6.65	3.60+5.90	0.15
					2	
			1	8.80	5.20+5.20	0.15
					2	
			1	5.00	3.10+3.10	0.15
					2	
e	cross road -5		1	15.00	3.80+3.80	0.15
					2	
			1	15.00	4.30+4.35	0.15
					2	
			1	7.00	4.35+4.30	0.15
					2	
f	Cross road -6 W1821 Temple road		1	5.00	8.70+8.80	0.15
					2	
	Ch 0.00 to 61.00 mtr		1	15.00	7.00+6.15	0.15
					2	
			1	15.00	6.15+5.20	0.15
					2	
			1	15.00	5.20+4.20	0.15
					2	
			1	10.50	4.20+3.50	0.15
					2	
Actual Qty						311.77
Limited to						311.13


 Assistant Engineer
 ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24


 Assistant Engineer
 Byalare Division
 ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24